**Instructions for next 3 classes**

Supervised by Ni Dai (ndai@umd.edu)

**Th-Nov. 12, 2015**

1. Meet in class and create circles for each group according to Term Paper topic.
2. Discuss among group members organization of topic, delegate tasks of writing and start web search at Web of Science (link was provided) and try to select papers you want to use.

**Tuesday- Nov.17, 2015**

H**omework Review and augmentation**

Bring your Homework # 2 to class. Bring the table with information on declination and equation of time

Part II, HW # 2

Problem # 1: Joseph Zagami

Joseph, show how to do it the long way (using the equations) and also by using the table.

Problem # 2: Justin Hicks

Justin, show only one case. Also, show both ways, using equations and using the table.

Problem # 5: Christine Clements

Christine, derive the equation and solve for the temperature of the earth.

Problems 6 and 7: Yicheng He

Yicheng will explain the program he wrote and the results he obtained. He will also send you the programs via ELMS.

The numbers he got for the temperatures of the various planets are without accounting for their atmosphere. Use the Web of Science as a resource (or any other source) to find out what is the actual temperature of the planets. You can get organized as a group (based on the Term Paper grouping, and submit one report on your findings. If unable to complete in class, you can send it electronically within a week.

**Augmentation**

We talked in class about heating rates defined in your textbook as:



 

In class, gave the following expression:

The radiative heating or cooling rate is defined as the rate of temperature change of the layer dz due to radiative energy gain or loss, given as:

 (1)

where:

Fnet=F - F

Need to reconcile the equality of the two terms on the right of expression (1).

Marcel Caron will show it by explaining first the concept of **hydrostatic balance.**

**Suggestion:**

Marcel should go before Yicheng since after problems 6 & 7 you will need to use the internet which can go on forever.

**Th-Nov. 19, 2015**

1. Meet in class and create circles for each group according to Term Paper topic.
2. By now, you should have read some of the papers you have selected for review and have a good idea what you want to do. After reading the paper, fine-tune your outlines as a group and start working on the Term Paper.
3. Start preparing the Power Point presentation that each group will give at the end of the semester. Each student will get about 3 min to present his/hers section.

I hope the instructions are clear. If you have any questions, you can ask me on Tuesday, Nov. 10.